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Notices

DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)

Public Health Service (PHS)

National Institutes of Health (NIH)

National Toxicology Program Office

National Toxicology Program; Availability of Technical Report on Toxicology and Carcinogenesis Studies of Quercetin

58 FR 14220

DATE: Tuesday, **March** 16, 1993

The HHS' National Toxicology Program announces the availability of the NTP Technical Report on the toxicology and carcinogenesis studies of quercetin, a member of a group of naturally occurring compounds, the flavonoids. Quercetin is found in various food products and plants, including fruits, seeds, vegetables, tea, coffee, bracken fern and natural dyes.

Two-year toxicology and carcinogenesis studies were conducted by administering quercetin to groups of 70 male and 70 female rats at concentrations of 0, 1,000, 10,000 or 40,000 ppm quercetin in feed.

Under the conditions of these 2-year feed studies, there was some evidence of carcinogenic activity n1 of quercetin in male F344/N rats based on an increased incidence of renal tubule cell adenomas. There was no evidence of carcinogenic activity of quercetin in female F344/N rats receiving 1,000, 10,000 or 40,000 ppm. The incidence of renal tubule hyperplasia and the severity of nephropathy were increased in exposed male rats.

n 1 The NTP uses five categories of evidence of carcinogenic activity observed in each animal study: two categories for positive results ("clear evidence" and "some evidence"), one category for uncertain findings ("equivocal evidence"), one category for no observable effect ("no evidence"), and one category for studies that cannot be evaluated because of major flaws ("inadequate study").

The study scientist for this bioassay is Dr. June K. Dunnick. Questions or comments about the contents of this Technical Report should be directed to Dr. Dunnick at P.O. Box 12233, Research Triangle Park, NC 27709 or telephone (919) 541-4811.

Copies of Toxicology and Carcinogenesis Studies of Quercetin in F344/N Rats (Feed Studies) (TR 409) are available without charge from Central Data Management, NIEHS, MD A0-01, P.O. Box 12233, Research Triangle Park, NC 27709; telephone (919) 541-3419 or (919) 541-0977.

Dated: March 10, 1993.

Kenneth Olden,

Director, National Toxicology Program.

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